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P.O. Box 1450, Alexandria, VA, on May 24, 2005.

Elena M. Cuthbertson
Elena M. Cuthbertson

**PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF
SATORU OBARA, ET AL.

DOCKET NO.: TOYO-1

SERIAL NO.: 10/521,689

EXAMINER: UNKNOWN

FILED: JANUARY 18, 2005

ART UNIT: UNKNOWN

TITLE: METHOD FOR PRODUCING A DENDRIMER, BUILDING BLOCK
COMPOUND, AND METHOD FOR PRODUCING A THIOPHENE COMPOUND

WILMINGTON, DE

DATE: MAY 24, 2005

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the applicants' duty of disclosure under 37 CFR 1.56, and the requirements of 37 CFR 1.97 and 1.98, and to aid in the search and examination of the above identified application, the applicants note and enclose a copy of each of the following references and the English translations of the abstracts:

Wang, et al.

U.S. Patent No. 6,025,462

Susumu, T., et al,

JP Patent No. 3074277

Toshihide, Y., et al, Japanese Application Laid-open No. 10-310561

Manabu, K., Japanese Application Laid-open No. 2002-20740

Hideji, D., et al. Japanese Application Laid-open No. 2001-247861

Grayson, S.M., et al, *Convergent Dendrons and Dendrimers; From Synthesis to Applications*, Chem. Rev. 101, pp. 3819-3867 (2001).

Malenfant, P., et al., *Well-Defined Triblock Hybrid Dendrimers Based on Lengthy Oligothiophene Cores and Poly(benzyl ether) Dendrons*, J. Am Chem. Soc., 120, pp. 10990-10991 (1998).

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DT/

Applicant: Satoru Obara, et al.
Serial No.: 10/521,689
Filing Date: January 18, 2005

Groenendaal, L., et al, *Surface Functionalization of Polyether Dendrimers Using Palladium-Catalyzed Cross-Coupling Reactions*, J. Org. Chem., 63, pp. 5675-5679 (1998).

Xla, C., et al, *A First Synthesis of Thiophene Dendrimers*, Organic Letters, Vol. 4, No. 12, pp. 2067-2070 (2002).

Shirota, Y, et al., *Starburst Molecules for Amorphous Molecular Materials*, Chemistry Letters, pp 1145-1148 (1989).

Miyaura, N., et al, *Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides*. Yuki Gose Kagaku Kyokai Shi (Journal of Synthetic Organic Chemistry, Japan), 46, p 848 (1988).

Miyaura, N., et al, *Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds*, Chem. Rev., 95, 2457-2483 (1995).

Suzuki, A., *Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles*. Journal of Organometallic Chemistry, 576, pp 147-168 (1999).

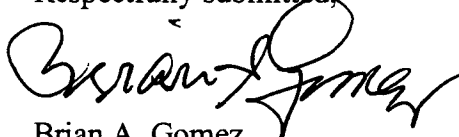
Kakimoto, M., Chemistry Vol. 50, p. 608 (1995).

Kakimoto, M., *Dendritic Macromolecules*, Kobunshi (High Polymers, Japan) Vol. 47, p. 804 (1998).

International Search Report Application No. PCT/JP03/08900

A copy of the PTO form 1449 is also enclosed.

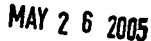
Respectfully submitted,



Brian A. Gomez
Attorney for Applicants
Registration No. 44,718
Telephone: 302-426-0610

Enclosures

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Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet 1

of 2

Complete if Known

Application Number	10/521,689
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Filing Date	January 18, 2005
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First Named Inventor	Satoru Obara
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Art Unit	
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Examiner Name

Attorney Docket Number	Toyo-1
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[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
		JP 3074277	03-04-1997			
		JP 10-310561	11-24-1998			
		JP 2002-20740	01-23-2002			
		JP 2001-247861	09-14-2001			

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Signature**

/Duc Truong/

Date	
Considered	

08/25/2008

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/521,689
		Filing Date	January 18, 2005
		First Named Inventor	Satoru Obara
		Art Unit	
		Examiner Name	
Sheet 2	of 2	Attorney Docket Number	Toyo-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		GRAYSON, S.M., et al, Convergent Dendrons and Dendrimers, From Synthesis to Applications, Chem. Rev. 101, pp. 3819-3867 (2001).	
		MALENFANT, P., et al., Well-Defined Triblock Hybrid Dendrimers Based on Lengthy Oligothiophene Cores and Poly(benzyl ether) Dendrons, J. Am Chem. Soc., 120, 10990-10991 (1998)	
		GROENENDAAL, L., et al, Surface Functionalization of Polyether Dendrimers Using Palladium-Catalyzed Cross-Coupling Reactions, J. Org. Chem., 63, pp. 5675-5679 (1998).	
		XIA, C., et al, A First Synthesis of Thiophene Dendrimers, Organic Letters, Vol. 4, No. 12, pp. 2067-2070 (2002).	
		SHIROTA, Y, et al., Starburst Molecules for Amorphous Molecular Materials, Chemistry Letters, pp 1145-1148 (1989).	
		MIYAURA, N., et al, Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, (J. of Synthetic Organic Chemistry, 46,p.848 (1988)	
		MIYAURA, N., et al, Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Chem. Rev., 95, 2457-2483 (1995).	
		SUZUKI, A., Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles. Journal of Organometallic Chemistry, 576, pp 147-168 (1999).	
		KAKIMOTO, M., Chemistry Vol. 50, p. 608 (1995).	
		KAKIMOTO, M., Dendritic Macromolecules, Kobunshi (High Polymers, Japan) Vol. 47, p. 804 (1998).	

Examiner Signature	/Duc Truong/	Date Considered	08/22/2008
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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